RPC Module Assembly Check List

Module barcode	Date Started
Lower gas gap	
Upper gas gap	Date Finished
1. Get and clean an aluminum fran	ne and place capton tape on the HV slot
2. Put cleaned mylar case sheet in	case and cut a slot for the HV connection
3. Roll out copper foil in Module o	ase
4. Peel the plastic off of the bottom	of the lower gas gap and scan it into the database
5. Place mylar sheet on the gas gap	, cut a slot for the HV connection and secure with capton tape
6. Lay the gap in the case (mylar d	own) and pull the plastic off of the other side.
7. Check position of gas gap and the	nen place the gas tubes through the casing
8. Splice HV cables (use 3 layers o	f insulation)
9. Put spacers in parallel ends of ca	ase to keep gap from moving.
10. Set clean signal plane on gap su	rface and use capton tape to secure it to the gap.
11. Place capton tape over solders a	long the ends of the signal plane to insulate from ground
12. Peel plastic off of the top of the	upper gas gap then place/secure mylar sheet and cut slot for HV
13. Flip gap over and peel plastic of	f of other side then place the gap on the signal plane (mylar up)
14. Check to verify position of the s	ignal wires with respect to the slots in the case.
15. Run ground wire and wrap/solde	er the signal grounds. Use a copper sheet to protect the gap
16. Run the HV cables along the sid	e of the gap then splice them together
17. Double check the gap alignmen	t then place the gas tubes though casing.
18. Clean surface of mylar and mak	e sure that the HV cables are laying next to the gap not on it
19. Cut a slot in the copper foil for t	he HV connection then fold it over and close it with tape
20. Secure the readout wires in there	e slots with rubber and electrical tape
21. Cut the grounds to there proper	lengths crimp on the connectors and secure them to the case
22. Solder readout strip ground to th	e copper foil. Make sure solder joint is not over the gas gap
23. Place cleaned mylar sheet labele	ed "casing" over the copper and cut a slot for the HV connection
24. First make sure everything is pro	operly placed then secure cover to the top of the rpc module.
comments	
	T.7 1
	Worker